

**RSNS MOUNTING DETAIL**  
NOT TO SCALE

CONDUCTOR		TABLE										
AWG.	CIRCUIT OR POLE	RUNS										
		1	2	3	4	5	6	7	8	9	10	11
3-CONDUCTOR/12-CONDUCTOR CABLE	POLE (A)	1/1	1/1	1/1	1/1	1/1	1/1	1/1	-/-	-/-	-/-	-/-
	POLE (B)	-/-	1/1	1/1	1/1	1/1	1/1	1/1	-/-	-/-	-/-	-/-
	POLE (C)	-/-	-/-	1/1	1/1	1/1	1/1	1/1	-/-	-/-	-/-	-/-
	POLE (D)	-/-	-/-	-/-	1/1	1/1	1/1	1/1	-/-	-/-	-/-	-/-
	POLE (E)	-/-	-/-	-/-	-/-	1/1	1/1	1/1	-/-	-/-	-/-	-/-
	POLE (F)	-/-	-/-	-/-	-/-	-/-	-/-	1/1	1/1	1/1	-/-	-/-
	POLE (G)	-/-	-/-	-/-	-/-	-/-	-/-	-/-	1/1	1/1	1/1	-/-
	POLE (H)	-/-	-/-	-/-	-/-	-/-	-/-	-/-	1/1	1/1	1/1	1/1
TOTAL		1/1	2/2	3/3	4/4	5/5	5/5	5/5	3/3	3/3	2/2	1/1
#10	LUMINAIRE	2	2	2	2	2	-	-	-	-	2	-
	Ø1 DETECTOR	-	-	-	-	-	-	-	-	-	-	-
	Ø2 DETECTOR	-	-	-	-	-	-	-	-	-	-	-
	Ø3 DETECTOR	-	-	-	1	1	1	1	-	-	-	-
	Ø4 DETECTOR	-	-	-	-	-	-	-	2	2	2	2
	Ø5 DETECTOR	-	-	-	-	-	-	-	-	-	-	-
	Ø6 DETECTOR	3	3	3	3	3	3	3	-	-	-	-
	Ø7 DETECTOR	-	-	-	2	2	2	2	-	-	-	-
TOTAL		3	3	3	6	6	6	6	6	3	3	3
E.V.P.		1	1	2	2	3	3	3	1	1	1	-
CONDUIT SIZE (INCH)		E	E	E	E	E	E	E	E	E	E	E

▼ - REMOVE ALL CONDUCTORS. INSTALL NEW CONDUCTORS AS SHOWN

POLE SCHEDULE													
L O C	STANDARD		MASTARMS		LUMINAIRE		PED PUSH BT.			SIGNAL MOUNTING			REMARKS
	TYPE	HT.	SIG.	LUM.	H.P.S.V.	TYPE	PHASE	QUAD	VEHICLE	POLE	PED.	R.S.N.S.	
A	26-4-70	30'	40'	12'	250 W	B	6	E	2-MAS	SV-1-T	SP-1-T	Santa Anita Ave.	4.5'
B	1-A	10'	-	-	-	B	8	S	-	TV-1-T	SP-1-T	-	2.5'
C	19-2-70	30'	20'	12'	250 W	B	8	S	MAS	SV-1-T	SP-1-T	Garvey Ave.	8.3'
D	1-A	10'	-	-	-	B	2	W	-	TV-1-T	SP-1-T	-	7.5'
E	26-4-70	30'	40'	12'	250 W	B	2	W	2-MAS	SV-1-T	SP-1-T	Santa Anita Ave.	2.5'
F	1-A	10'	-	-	-	B	4	N	-	TV-1-T	SP-1-T	-	4.0'
G	19-2-70	30'	20'	12'	250 W	B	4	N	MAS	SV-1-T	SP-1-T	Garvey Ave.	8.0'
H	1-A	10'	-	-	-	B	6	E	-	TV-1-T	SP-1-T	-	6.9'

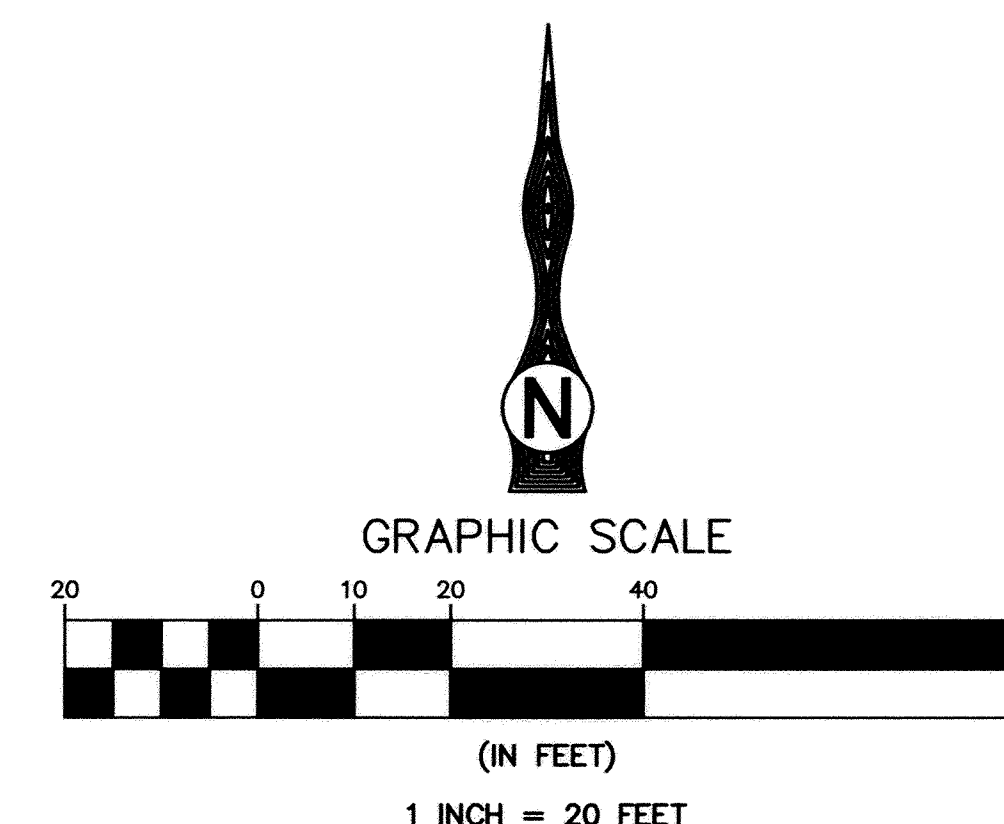
▲ - ALL EQUIPMENT IS NEW UNLESS SHOWN OTHERWISE.

# **CONSTRUCTION NOTES**

- EXISTING TYPE 332 CABINET TO BE REMOVED AND SALVAGED. EXISTING FOUNDATION BOLTS/ CONDUITS TO BE PROTECTED IN PLACE. INSTALL CITY FURNISHED 332 CABINET AND ASSOCIATED HARDWARE. FURNISH AND INSTALL OPTICOM EMERGENCY VEHICLE PRE-EMPTION SYSTEM AND BATTERY BACKUP SYSTEM COMPLETE (SEE SPECIAL PROVISIONS).
- REMOVE AND SALVAGE EXISTING POLE AND ASSOCIATED HARDWARE. EXISTING FOUNDATION BOLTS TO BE PROTECTED IN PLACE. INSTALL NEW POLE AND ASSOCIATED HARDWARE PER POLE SCHEDULE.
- FURNISH AND INSTALL REFLECTIVE STREET NAME SIGN ON SEPARATE MASTARM PER DETAIL THIS SHEET. MASTARM FINISH AND COLOR TO MATCH SIGNAL STANDARD.
- INSTALL UNI-DIRECTIONAL SINGLE CHANNEL OPTICOM DETECTOR PER STD. ES-4E (2006 CALTRANS STD. PLANS)
- INSTALL R73-3 SIGN ON MASTARM PER CALTRANS STD. ES-7N (2006 CALTRANS STD. PLANS)

# **GENERAL NOTES**

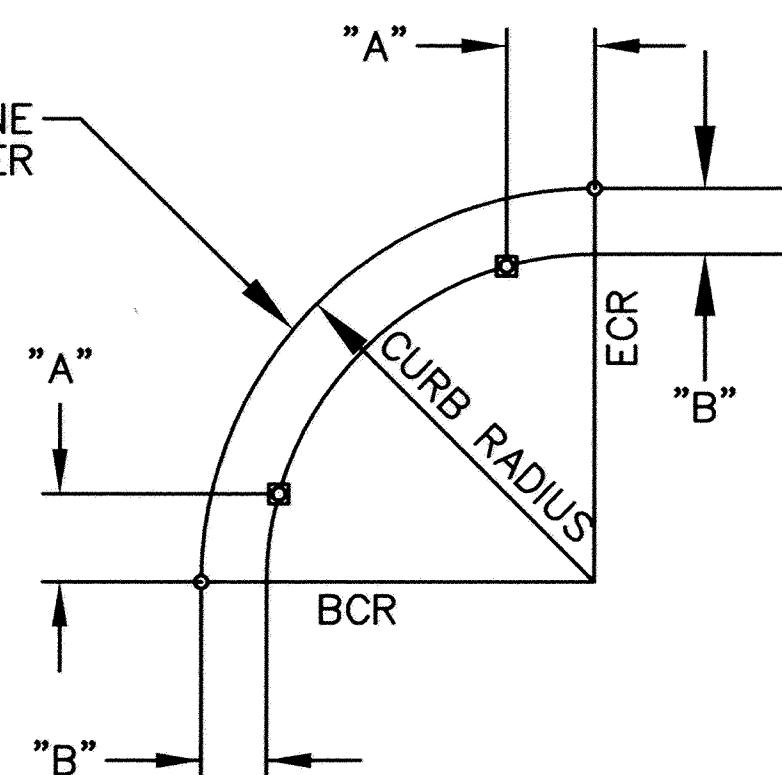
- TRAFFIC SIGNAL, SIGNING AND STRIPING, AND LIGHTING SHALL CONFORM TO THESE PLANS, THE SPECIAL PROVISIONS, THE CITY OF EL MONTE STANDARD DETAILS, THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS SECTION 86 (DATED MAY, 2006), AND STANDARD PLANS (DATED 1992).
- THE CONTRACTOR SHALL POTHOLE TO DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES AND VERIFY ALL CONDITIONS ON THE JOB SITE. HAND DIG FOUNDATIONS UNTIL CLEAR OF ANY OBSTRUCTIONS. PHONE UNDERGROUND SERVICE ALERT AT (800) 227-2600, TWO (2) WORKING DAYS BEFORE DIGGING.
- ALL PULLBOXES SHALL BE NO. 5 AND CONDUIT SHALL BE 2" RIGID METAL UNLESS OTHERWISE SHOWN.
- CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER FOR EXACT EQUIPMENT LOCATIONS PRIOR TO FINAL PLACEMENT. SEE POLE LOCATION DETAIL SHOWN ON PLAN.
- ALL REQUIRED CONSTRUCTION PERMITS SHALL BE OBTAINED FROM THE CITY OF EL MONTE ENGINEERING DIVISION PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL RELOCATE AND/OR REPLACE LANDSCAPING, SPRINKLERS, AND SIDEWALK AFFECTED BY THE CONSTRUCTION TO THE SATISFACTION OF THE ENGINEER.
- ALL VEHICLE INDICATIONS SHALL BE 12" AND HAVE L.E.D. SIGNAL MODULES. ALL PEDESTRIAN HEADS SHALL HAVE L.E.D. PEDESTRIAN MODULES EQUIPPED WITH COUNTDOWN TIMERS (SEE SPECIAL PROVISIONS).
- ANY EXISTING TRAFFIC SIGNALS AND LIGHTING SHALL REMAIN IN OPERATION UNTIL REPLACED WITH NEW CONSTRUCTION.
- CONTRACTOR TO FURNISH ALL EQUIPMENT, MATERIALS, AND HARDWARE (EXCLUDING DECORATIVE POLES, MASTARMS, EVP SYSTEM AND SIGNAL CABINETS) TO CONSTRUCT THE TRAFFIC SIGNAL AND LIGHTING AS SHOWN ON THE PLANS (SEE SPECIAL PROVISIONS).
- CONTRACTOR SHALL REFER TO THE ENGINEER IN THE EVENT OF A CONFLICT OR POTENTIAL CONFLICT WITH THESE PLANS AND, OR SPECIFICATIONS FOR THIS PROJECT. MODIFICATIONS OR CHANGES SHALL NOT BE IMPLEMENTED UNTIL WRITTEN APPROVAL IS OBTAINED FROM THE ENGINEER.



R/W GARVEY

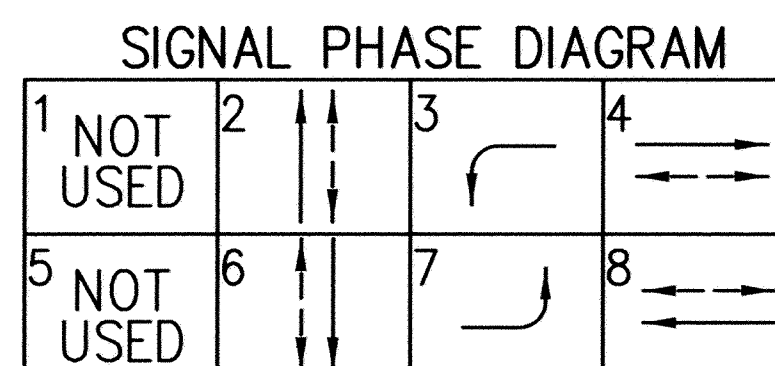
165' TO BACK OF CROSSWALK

CURB/BERM FLOW LINE OR EDGE OF SHOULDER



TYPICAL SIGNAL PLACEMENT UNLESS DIMENSIONS NOTED ON PLANS.

# **SIGNAL STANDARD PLACEMENT DIMENSIONS AND EQUIPMENT LOCATIONS**



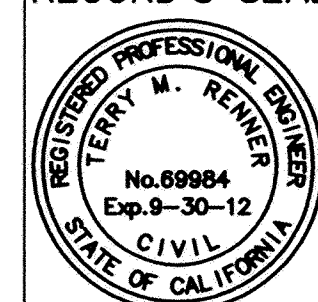
NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.  
**Underground Service Alert**  
Call: TOLL FREE 1-800-227-2600  
TWO WORKING DAYS BEFORE YOU DIG

MARK	DATE	INITIAL	DESCRIPTION	REC.	APPR.	DATE
			REVISION			

CITY OF EL MONTE APPROVAL

JAMES A. ENRIQUEZ  
DIRECTOR OF PUBLIC WORKS  
R.C.E. #55520 EXP. 12/31/2012

ENGINEER OF RECORD'S SEAL



**TKE ENGINEERING**  
2305 CHICAGO AVE  
RIVERSIDE, CA 92507  
P: (951) 680-0440  
F: (951) 680-0490

UNDER THE SUPERVISION OF:  
*Terry M. Renner*  
TERRY M. RENNER  
R.C.E. #69984 EXP. 09/30/2012

DATE: 2/28/12

TRAFFIC SIGNAL MODIFICATION PLAN  
CITY OF EL MONTE  
GARVEY AVENUE AT SANTA ANITA AVENUE

SHEET NO.

1

OF 1 SHEETS

FOR:

W.O.